

AKANKSHA YADAV

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EDUCATION

Bachelor of Computer Science, University of Dayton

May 2025

- Dean's Honors List; University of Dayton Global Scholarship
- JP Morgan Chase Hack for Good 2024 Participant

CERTIFICATIONS

AWS Certified Cloud Practitioner – Amazon Web Services [\[Show Credential\]](#)

SKILLS

Languages: Python, Java, C#, JavaScript, SQL, R

Frameworks: Spring Boot, Flask, React, Angular, .NET MVC

ML/CV: PyTorch, OpenCV, CNNs, Vision Transformers

Cloud/Databases: AWS (CCP), Docker, Jenkins, Azure, Heroku, MongoDB, PostgreSQL, SQL Server

EXPERIENCE

AI Research Assistant

May 2025 – Present

Department of Computer Science, University of Dayton – Dayton, OH (Remote)

- Trained and evaluated CNN and Vision Transformer models on FaceForensics++ and DFDC datasets, improving classification accuracy by 15%.
- Built preprocessing, feature extraction, and evaluation pipelines in PyTorch to enable reproducible ML experimentation.
- Analyzed spatial and temporal artifacts (motion inconsistencies, compression effects) to improve robustness of CNN-based detectors.
- Designed experimental frameworks and conducted survey-based analysis with faculty mentor to support publication-ready machine learning research.

Software Development Engineer Intern

Aug 2023 – May 2024

Meadowlawn Condominiums – Cleveland, OH (Hybrid)

- Designed and deployed a production-grade maintenance CRM serving real users, built with Spring Boot, Java, JavaScript, AJAX, and HTML.
- Implemented secure authentication using Google SSO, Spring Security, and OAuth 2.0; designed RESTful APIs backed by MongoDB for CRUD workflows.
- Containerized and deployed the application using Docker and Jenkins CI/CD, enabling automated builds and reliable cloud deployment on Heroku.

Software Development Engineer Intern

May 2023 – Aug 2023

Lavner Education @ Carnegie Mellon University – Pittsburgh, PA

- Developed reporting features using C#, .NET MVC, XML, and Power BI to support data-driven operational insights.
- Supported automated reporting for after-test results and attendance summaries.
- Collaborated on UI/workflow improvements contributing to reduced support requests.

PROJECTS

Horizon Messenger (MERN): Built a real-time messaging app using React, Node.js/Express, MongoDB, WebSockets, and JWT authentication; deployed on Heroku.